

# Mercury Control Technology R&D Program Review Meeting

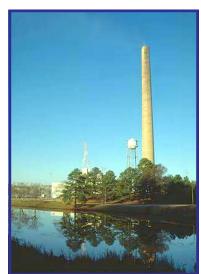


### August 12-13, 2003

#### AGENDA

#### Tuesday, August 12

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7:00 – 8:00 am	Registration and Continental Breakfast
8:00 – 8:10 am	Introduction Thomas J. Feeley, III, Product Manager, Innovations for Existing Plants U.S. Department of Energy, National Energy Technology Laboratory
8:10 – 8:30 am	Welcome Carl O. Bauer, Associate Director, Office of Coal and Environmental Systems U.S. Department of Energy, National Energy Technology Laboratory
8:30 – 8:50 am	Overview of DOE-NETL's Mercury R&D Program  Scott A. Renninger, Project Manager, Environmental Projects Division  U.S. Department of Energy, National Energy Technology Laboratory
8:50 – 9:20 am	Overview of EPRI's Mercury R&D Program  George R. Offen, Manager Air Emissions and Byproducts  EPRI
9:20 – 9:50 am	Overview of EPA's Mercury R&D Program James D. Kilgroe, Manager, Municipal Waste Combustion U.S. Environmental Protection Agency
9:50 – 10:20 am	Break



## **Mercury Control Technology R&D -** Moderator - Scott A. Renninger - U.S. Department of Energy, National Energy Technology Laboratory

National Energy Technology Laboratory		
10:20 – 10:50 am	Field Test Program to Develop Comprehensive Design, Operating and Cost Data for Mercury Control <i>Michael D. Durham</i> ADA Environmental Solutions LLC	
10:50 – 11:20 am	Full-Scale Testing of Enhanced Mercury Control Technologies for Wet FGD Systems <i>George A. Farthing</i> McDermott Technology Inc.	
11:20 – 12:10 pm	Long-term Operation of a COHPAC System for Removing Mercury from Coal-Fired Flue Gas C. Jean Bustard ADA Environmental Solutions LLC	
12:10 – 1:10 pm	Group Lunch	
1:10 – 1:40 pm	Mercury Control with the Advanced Hybrid Particulate Collector Stanley J. Miller Energy & Environmental Research Center	
1:40 – 2:10 pm	Mercury Removal in a Non-Thermal Plasma Based Multi-Pollutant Control Technology for Utility Boilers Christopher R. McLarnon Powerspan Corp.	

#### Tuesday, August 12 (continued)

2:10 – 2:40 pm	Pilot Testing of Oxidation Catalysts for Enhanced Mercury Control by Wet FGD Systems <i>Gary M. Blythe</i> URS Corporation
2:40 – 3:10 pm	Break
3:10 – 3:40 pm	The CONSOL/Allegheny Pilot Plant Study of Low-Temperature Mercury Capture with an Electrostatic Precipitator <i>Richard A. Winschel</i> CONSOL Energy Inc.
3:40 – 4:10 pm	Pilot-Scale Research at NETL on Mercury Measurement and Control Andrew Karash U.S. Department of Energy, National Energy Technology Laboratory
4:10 – 4:40 pm	Novel Techniques for Mercury Control Evan J. Granite and Henry W. Pennline U.S. Department of Energy, National Energy Technology Laboratory
5:00 – 6:30 pm	Poster Session and Light Refreshments

#### Wednesday, August 13

**Mercury Control Technology R&D (continued) - Moderator - Evan J. Granite - U.S. Department of Energy, National Energy Technology Laboratory** 

7:00 – 8:00 am	Registration and Continental Breakfast
8:00 – 8:30 am	Assessment of Low-Cost Novel Sorbents for Coal Fired Power Plant Mercury Control Trevor Ley Apogee Scientific, Inc.
8:30 – 9:00 am	Mercury Control with Calcium-Based Sorbents and Oxidizing Agents Thomas K. Gale Southern Research Institute
9:00 – 9:30 am	Preliminary Field Evaluation of Mercury Control Using Combustion Modifications <i>Vitali Lissianski</i> GE Energy & Environmental Research Corp.
9:30 – 10:00 am	Oxidation of Mercury Across SCR Catalysts in Coal-Fired Power Plants Burning Low-Rank Fuels Constance Senior Reaction Engineering International
10:00 – 10:30 am	Break
10:30 – 11:00 am	Mercury Control Technologies for Electric Utilities Burning Lignite Coals <i>John H. Pavlish</i> Energy & Environmental Research Center
11:00 – 11:30 am	Evaluation of Mercury Emissions from Coal-Fired Facilities with SCR-FGD Systems Shiaw C. Tseng CONSOL Energy R&D
11:30 – 12:00 pm	Evaluation of Mercury Speciation at Power Plants Using SCRs for NOx Control Dennis L. Laudal Energy & Environmental Research Center
12:00 – 1:00 pm	Group Lunch
1:00 – 1:30 pm	Speciation and Attenuation of Arsenic and Selenium, and Fate of Mercury in Coal Combustion Products Ken Ladwig EPRI
1:30 – 2:00 pm	Direct Measurement of Mercury in Power Plant Plumes  Leonard Levin  EPRI

#### Wednesday, August 13, (continued)

#### Byproduct Characterization - Moderator - Lynn A. Brickett - U.S. Department of Energy,

National Energy Technology Laboratory

2:00 – 2:30 pm The Evolution of Mercury from Coal Combustion Materials and By-Products

\*\*Allyson M. Schwalb\*\*
CONSOL Energy Inc.\*\*

2:30 – 2:45 pm **Break**2:45 – 3:15 pm NETL's Coal By-Product Characterization Research

Ann G. Kim

U.S. Department of Energy, National Energy Technology Laboratory

3:15 – 3:45 pm Mercury Impacts on By-Products

Debra F. Pflughoeft-Hassett

Energy & Environmental Research Center

3:45 – 4:15 pm **Wrap-up** 

Thomas J. Feeley, III

U.S. Department of Energy, National Energy Technology Laboratory

4:15 pm **Adjourn** 



Hyatt Regency - Pittsburgh International Airport

#### Poster Presenters

Evaluation of the Emission, Transport, and Deposition of Mercury from Coal Based Power Plants in the Ohio River Valley Region — *Kevin Crist*, Ohio University

Mercury Deposition Monitoring at the Holbrook Site, Greene County, PA — *Robinson P. Khosah*, Advanced Technology Systems, Inc.

Assessing the Mercury Health Risks Associated with Coal-Fired Power Plants: Impacts of Local Deposition — *Terry Sullivan*, Brookhaven National Laboratory

Critical Review of Mercury Chemistry — *C. David Livengood and Marshall H. Mendelsohn*, Argonne National Laboratory

Computational Approaches to the Development of Advanced Mercury Control Technologies — *Jens I. Madsen,* Fluent Inc.

Fate of Oxidized Mercury in Biologically Regenerated NOx Scrubber Liquor — *Richard W. Hammack*, U.S. Department of Energy, National Energy Technology Laboratory

ElectroCore Testing at Gaston — Bruce Easom, LSR Technologies

"Longer-Term" Mercury Emission Variability — Dennis L. Laudal, Energy & Environmental Research Center

Processing and Reuse of Activated Carbon Used to Adsorb Mercury from Power Plant Flue Gases — *Thomas Weyand*, Pittsburgh Mineral and Environmental Technology

Injecting Gas Oxidants to Oxidize Elemental Mercury for the Control of Its Emission from Coal Power Plants — *Ted Chang, Lawrence Berkeley National Laboratory*